

RMRC, Bhubaneswar

(Laxmi Narayan Memorial Library)

Weekly Current Awareness Service

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IN THE NONSTOP TSUNAMI OF GLOBAL INFORMATION, LIBRARIANS PROVIDE US WITH FLOATIES AND TEACH US TO SWIM.

-LINTON WEEKS

About Monday Morning

Monday morning is a weekly E- CAS (Electronic Current Awareness Service) of RMRC Library, Bhubaneswar which carries one Biomedical & health science news item and some useful current medical research links so that the scientists can access the articles. This E- Bulletin starts its journey from 21st Nov. 2016. In this maiden attempt we cordially invite your inputs and suggestions to improve in future.

Dr. Banamber Sahoo, Lib & Inf. Officer
Satyajit Nayak & Twinkle Rout (Lib. Trainee)

AIDS virus almost half-a-billion years old

FALSE ASSUMPTION

LONDON: Retroviruses, the family of viruses that includes HIV, are almost half-a-billion years old — several hundred million years older than previously thought, claim scientists from Oxford University.

New research suggests that retroviruses have ancient marine origins, having been with their animal hosts through the evolutionary transition from sea to land. Until now, it was

thought that retroviruses were relative newcomers — possibly as recent as 100 million years in age.

“Our research shows that retroviruses are at least 450 million years old, if not older, and that they must have originated together with, if not before, their vertebrate hosts in the early Paleozoic era,” explained Dr Aris Katzourakis from Oxford University’s department of zoology.

Furthermore, they would have been present in our vertebrate ancestors

prior to the colonisation of land and have accompanied their hosts throughout this transition from sea to land, all the way up until the present day.

Retroviruses are a family of viruses that includes the HIV virus responsible for the AIDS pandemic. They can also cause cancers and immunodeficiencies in a range of animals.

The ‘retro’ part of their name comes from the fact they are made of RNA, which they can convert into DNA and insert into their host genome.

<http://epaper.newindianexpress.com/c/16057601>

1. Distribution and source identification of heavy metal concentration in Chilika Lake, Odisha India: an assessment over salinity gradient.

Extent of heavy metal contamination in Chilika Lake was assessed to conserve the eco-dynamics of the lake. Distribution of heavy metals, cations and total organic carbon were analysed in the sediment samples collected from three sites that represent a salinity gradient. For more details click on the below link.

<http://www.currentscience.ac.in/Volumes/112/01/0087.pdf>

2. A mysterious method of gene control sheds its secrets.

The children were tiny, often resisting their parents' entreaties to eat. Their skin stretched over jutting cheekbones; toddlers might weigh what a healthy 6-month-old would. Back in the mid-1970s, when Madeleine Harbison was in medical school, her mentor, a pediatric endocrinologist at Massachusetts General Hospital in Boston, urged her to consider what was stunting their growth. For more details click on the below link.

<http://www.sciencemag.org/news/2017/01/mysterious-method-gene-control-sheds-its-secrets>

3. Type 2 diabetes shows marked increase in pediatric population.

Private health insurance claim lines with a type 2 diabetes diagnosis more than doubled in the pediatric population (ages 0 to 22 years) from 2011 to 2015, increasing 109 percent, according to data from FAIR Health, a national, independent, nonprofit organization dedicated to bringing transparency to healthcare costs and health insurance information. For more details click on the below link.

https://www.eurekalert.org/pub_releases/2017-01/fh-t2d011217.php

4. Weekly epidemiological record.

Status of new vaccine introduction – worldwide, September 2016. For more details click on the below link.

<http://apps.who.int/iris/bitstream/10665/252768/1/WER9201.pdf?ua=1>



E- CAS (Current Awareness Service)

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